California Regional Water Quality Control Board
North Coast Region

ORDER NO. 80-193

WASTE DISCHARGE REQUIREMENTS

for

COUNTY OF TRINITY
WEAVERVILLE LANDFILL SWD SITE

Trinity County

The California Regional Water Quality Control Board, North Coast Region, finds that:

1. On October 2, 1980 the Trinity County Department of Public Works P. O. Box AY, Weaverville, CA 96093, submitted on behalf of the County of Trinity (hereafter the discharger), a report of waste discharge describing the Weaverville Landfill solid waste disposal site. The Weaverville Landfill is located northeast of Weaverville, along State Highway 3 within the SE 1/4, Section 6, T33N, R9W, MDB & M, as shown on Attachment "A" of this order. The 20 acre parcel is owned by County of Trinity.

2. The discharger receives and disposes of 20 tons per day Group 2 and Group 3 wastes. The site is operated with the typical "cell" method wherein wastes are spread and compacted in two foot layers on a limited area, then are covered and capped after reaching a depth of eight feet. A thin earth cover is placed over the cell every other day to maintain sanitary conditions. A compacted final earthen cover is placed over each cell when it is filled to design elevation.

3. The operation plan for this site includes a "winter" site (with level all-weather access road), a "summer" site (has steeper, dry-weather access), and two septage ponds as shown on Attachment "B" of this order.

   a. The "winter" site has a planned fill depth ranging from 15 to 30 feet.

   b. The "summer" site has a planned fill depth of 95 feet.

   Final cover on both sites will be two feet of compacted selected soil material. The capacity of the two sites is 225,000 cubic yards which will give an expected life of 24 years.

   c. The septage ponds are constructed of compacted clay soils and serve as closed basins for evaporation of moisture and consolidation of solids.

4. The soil and subsoil under the disposal site area consists of loose reddish brown clay, overlying dense compacted brown clay and hard shale. Depth to groundwater is in excess of 85 feet in disposal area. The area receives approximately 35 inches of precipitation and less than three feet of snow annually. Average annual evaporation at Weaverville is about 50 inches.

5. This disposal site meets the criteria contained in the California Administrative Code, Title 23, Chapter 3, Subchapter 15, for classification as a Class II-2 disposal site suitable to receive Group 2 and Group 3 wastes.

6. Surface drainage from adjacent lands and runoff from the inactive areas of the site are tributary to Five Cent Gulch and East Weaver Creek, thence Weaver Creek and Trinity River; within the Klamath River Basin.

7. The Regional Board adopted the Water Quality Control Plan for the Klamath River Basin on March 20, 1975, and amended the Plan on March 25, 1976 and June 21, 1979.

8. The beneficial uses of the Trinity River as enumerated in the Basin Plan include:

   a. municipal and domestic supply
   b. agricultural supply
   c. industrial service supply
   d. groundwater recharge
   e. freshwater replenishments of lakes and streams
   f. water contact and non-water contact recreation
   g. cold freshwater habitat
   h. wildlife habitat
   i. migration route for anadromous fish
   j. fish spawning area.

9. The disposal site is exempt from provisions of the California Environmental Quality Act under Section 15101 class as an existing facility. The Regional Board finds that no adverse water quality impacts will result if the facility is operated in conformance with provisions of this order.

10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.

11. The Board in a public meeting, heard and considered all comments pertaining to the discharge.

THEREFORE, IT IS HEREBY ORDERED that the discharger shall comply with the following:

A. DISCHARGE SPECIFICATIONS:

1. The treatment or disposal of waste shall not cause pollution or a nuisance as defined in Section 13050 of the California Water Code.

2. Waste materials shall not be disposed of outside of the disposal cells.

3. The disposal areas shall be protected from any washout or erosion of wastes or covering material, and from inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.

4. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through Group 2 wastes discharged at the site.

5. Group 1 wastes shall not be deposited at this site.

6. Liquids shall not be discharged in Group 2 solid wastes at this site. Water used during disposal site operations shall be limited to a minimal amount reasonably necessary for dust control purposes. Liquid wastes may be discharged to separate ponding or spreading areas only if the specific wastes, manner and place of disposal are approved by the Executive Officer.

7. Liquid control barriers shall be maintained downgradient from the disposal area to prevent any leachate or other liquid wastes from entering surface waters.

8. Annually, prior to October 1, all necessary runoff diversion channels shall be in place to prevent erosion or flooding of the site.

9. Group 2 waste shall be covered with a minimum of one foot of native soil semi-weekly at equal intervals.

10. No Group 2 wastes shall be placed in ponded water from any source, whatsoever.

11. The exterior surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding.

12. The active areas of the site shall not be excessively large for daily waste placement operations. The inactive areas of waste placement shall be capped with at least two feet of earthen material compacted to a permeability of 1×10^{-6} cm/sec. or less.

13. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

B. PROHIBITION:

The discharge of waste including leachate to surface drainage courses or to useable groundwater is prohibited.

C. PROVISIONS:

1. The discharger shall maintain a copy of this order at the site so as to be available at all times to site operating personnel.

2. The discharger shall file with this Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours, or ownership of the disposal area.

3. The discharger shall comply with the Monitoring and Reporting Program No. 80-193 and the General Provisions for Monitoring and Reporting as specified by the Executive Officer.

4. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this order by letter, a copy of which shall be forwarded to this Board.

5. The discharger shall permit the Regional Board:

   a. entry upon premises in which an effluent source is located or in which any required records are kept;

   b. access to copy any records required to be kept under terms and conditions of this order;

   c. inspection of monitoring equipment or records; and

   d. sampling of any discharge.

6. In the event the discharger is unable to comply with any of the conditions of this order due to:

   a. breakdown of waste treatment equipment;
   b. accidents caused by human error or negligence; or
   c. other causes, such as acts of nature;

   the discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

7. The discharger shall comply with the Contingency Planning and Notification Requirements, Order No. 74-151, within 60 days of the adoption of this order.

8. The discharger shall file a written report within 90 days after the total quantity of wastes discharged at this site equals 75 percent of the reported capacity of the site. The report shall contain a schedule for studies, design, and other steps needed to provide additional capacity, or the total quantity discharged shall be limited to the reported capacity.

9. Ninety (90) days prior to discontinuing the use of this site for waste disposal the discharger shall submit a technical report to the Board describing the methods and controls to be used to assure protection of the quality of surface and groundwaters of the area during final operations and with any proposed subsequent use of the land.

10. This report shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist. The method used to close the site and maintain protection of the quality of surface and groundwaters shall comply with waste discharge requirements established by the Regional Board.

11. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.

Certification

I, David C. Joseph, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, North Coast Region, on December 4, 1980.

David C. Joseph
Executive Officer

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. 80-193
(Revised June 4, 1985)

for

WEAVERVILLE SOLID WASTE DISPOSAL SITE

Trinity County

MONITORING

Monitoring Well Locations

Groundwater monitoring wells shall be established as follows (see Figure 1):

Well #1 - Shallow upgradient well to a depth terminating at the top of the Weaverville Formation.
Well #2 - Deep upgradient well perforated in the Weaverville Formation and sealed above the Weaverville Formation.
Well #3 - Deep downgradient well perforated in the Weaverville Formation and sealed above the Weaverville Formation.
Well #3B- Shallow downgradient well to a depth terminating at the top of the Weaverville Formation.
Well #4 - Deep upgradient well perforated in the Weaverville Formation and sealed above the Weaverville Formation.

Groundwater Quality

Groundwater samples shall be collected from each of the above described wells seasonally as follows: Three samples shall be collected during each of the two climatic periods which occur annually—dry, summer period and wet, winter period. Of the three samples, one shall be collected during the middle of the period. A comprehensive chemical analysis shall be conducted on this sample as described below. The remaining two samples shall be collected near the beginning and end of each of the climatic seasons. These shall be confirming samples and shall be analyzed as described below. The wet and dry seasons normally occur over equal six month intervals such that monitoring would occur approximately bimonthly. The intent of the monitoring schedule, however, is to track seasonal fluctuations. Thus, longer or shorter climatic periods would be met with stretched out or compressed sampling periods respectively.

Comprehensive samples shall be analyzed for the following constituents:

Major Cations - Ca, Mg, K, Na
Major Anions - HCO3, CO3, Cl, SO4, NO3, PO4
Trace Elements - Cd, Cr, Cu, Fe, Pb, Mn, Zn
General - Total dissolved solids, Specific conductance, Hardness, COD, pH

Confirming samples shall be analyzed for the following constituents:

General - Total dissolved solids, Specific conductance, Hardness, COD, pH

Groundwater Levels

On the same date that wells are sampled, the depth to groundwater shall be determined in wells #1 through 4. Measurements shall be taken during static groundwater conditions prior to pumping wells for sample collection.

Leachate

The monthly quantity of leachate pumped from each collection gallery shall be recorded and the method of disposal shall be indicated (i.e., reinjected, spray irrigated on-site, or disposal off-site). On the same date that wells are sampled, a grab sample of leachate being pumped shall be collected from each collection gallery and analyzed for the same constituents that the well samples are analyzed.

REPORTING

Monitoring reports shall be submitted to the Regional Board monthly by the 15th day of the following month. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The monitoring and any necessary narrative reports shall be transmitted in accordance with specifications of Resolution No. 71-5, adopted by the Board on February 3, 1971. The first reporting period shall commence July 1, 1985.

Ordered by_____
David C. Joseph
Executive Officer

June 4, 1985

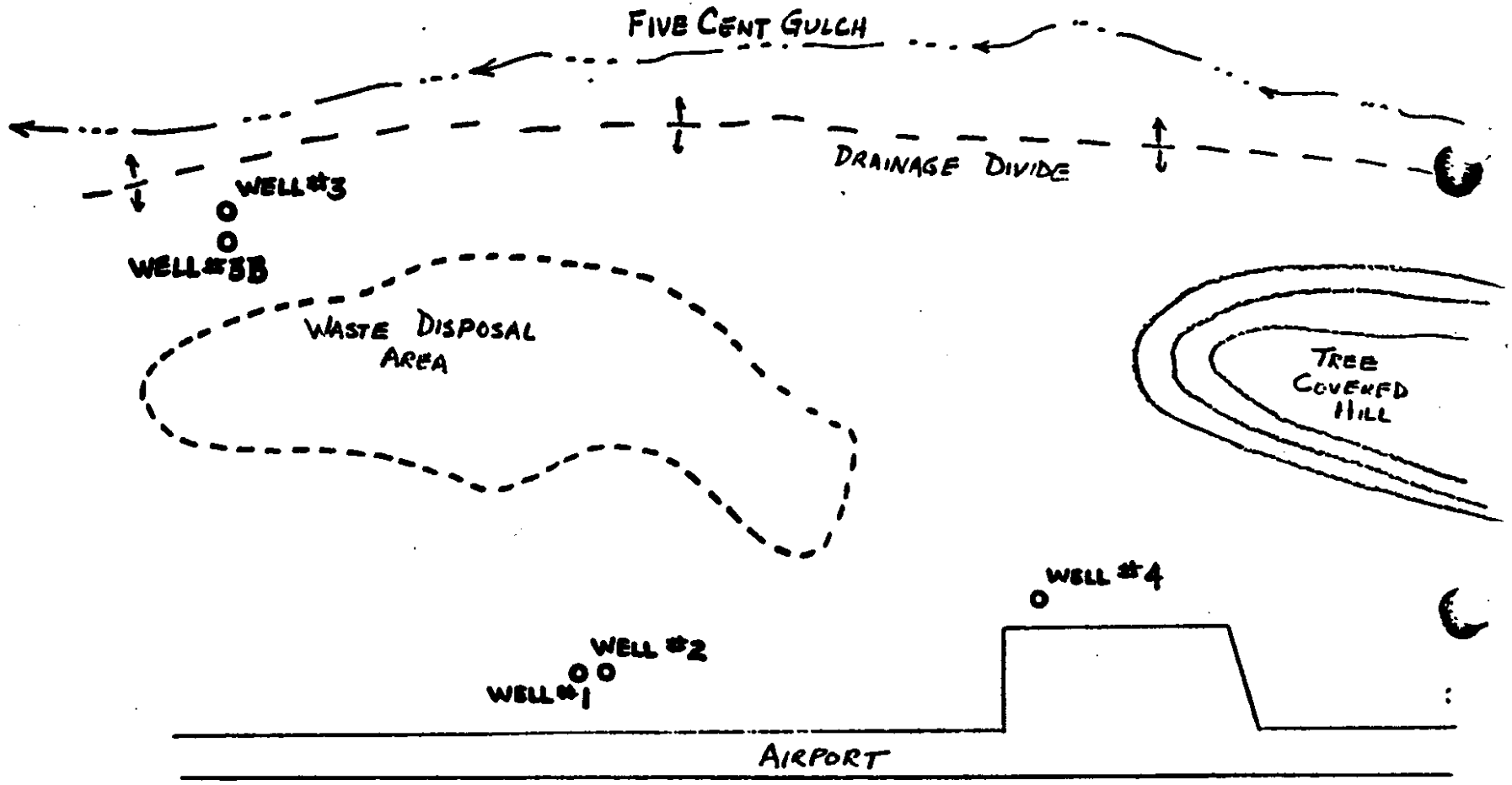

FIGURE 1

MONITORING AND REPORTING PROGRAM No. 80-193
REVISED JUNE 4, 1985